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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 6

Complete if Known

Application Number 10/054,451
Filing Date 01/18/2002
First Named Inventor Petro Estakhri
Group Art Unit 2188
Examiner Name Namazi, Mehdi
Attorney Docket Number 38979-80US

U.S. PATENT DOCUMENTS

		U.S. Patent Document		Date of Publication of		Pages, Columns, Lines,
M.N.	A1	2003/0033471	A1	Lin et al.	02/13/2003	
	A2	6,411,545	B1	Estakhri et al.	06/05/2002	
	A3	6,397,314	B1	Estakhri et al.	05/28/2002	
	A4	6,393,513	B2	Estakhri et al.	05/21/2002	
	A5	6,374,337	B1	Estakhri	04/16/2002	
	A6	6,279,114	B1	Toombs et al.	08/21/2001	
	A7	6,279,069	B1	Robinson et al.	08/21/2001	
	A8	6,272,610	B1	Katayama et al.	08/07/2001	
	A9	6,262,918	B1	Estakhri et al.	07/17/2001	
	A10	6,230,234	B1	Estakhri et al.	05/08/2001	
	A11	6,226,708	B1	McGoldrick et al.	05/01/2001	
	A12	6,223,308	B1	Estakhri et al.	04/24/2001	
	A13	6,202,138	B1	Estakhri et al.	03/13/2000	
	A14	6,182,162	B1	Estakhri et al.	01/30/2001	
	A15	6,181,118	B1	Meehan et al.	01/30/2001	
	A16	6,173,362	B1	Yoda	01/09/2001	
	A17	6,151,247		Estakhri et al.	11/21/2000	
	A18	6,145,051		Estakhri et al.	11/07/2000	
	A19	6,141,249		Estakhri et al.	10/31/2000	
	A20	6,134,151		Estakhri et al.	10/17/2000	
	A21	6,134,145		Wong	10/17/2000	
	A22	6,128,695		Estakhri et al.	10/03/2000	
	A23	6,125,435		Estakhri et al.	09/26/2000	
	A24	6,125,424		Komatsu et al.	09/26/2000	
	A25	6,122,195		Estakhri et al.	09/19/2000	
	A26	6,115,785		Estakhri et al.	09/05/2000	
	A27	6,097,666		Sakui et al.	08/01/2000	
	A28	6,081,878		Estakhri et al.	06/27/2000	
	A29	6,081,447		Loftgren et al.	06/27/2000	
	A30	6,072,796		Christensen et al.	06/06/2000	
	A31	6,055,188		Takeuchi et al.	04/25/2000	
	A32	6,055,184		Acharya et al.	04/25/2000	
	A33	6,047,352		Lakhani et al.	04/04/2000	
	A34	6,040,997		Estakhri	03/21/2000	
	A35	6,035,357		Sakaki	03/07/2000	
	A36	6,034,897		Estakhri et al.	03/07/2000	
	A37	6,026,027		Terrell, II et al.	02/15/2000	
	A38	6,026,020		Matsubara et al.	02/15/2000	
	A39	6,021,408		Ledain et al.	02/01/2000	
	A40	6,011,323		Camp	01/04/2000	
	A41	6,011,322		Hiraka	01/04/2000	
	A42	5,991,849		Yamada et al.	11/23/1999	
	A43	5,987,573		Hiraka	11/16/1999	

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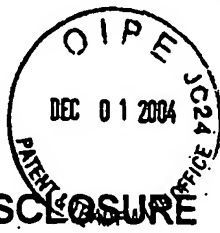
INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Sheet	2	of	6	Application Number	10,054,451
				Filing Date	01/18/2002
				First Named Inventor	Petro Estakhri
				Group Art Unit	2188
				Examiner Name	Namazi, Mehdi
				Attorney Docket Number	38979-80US
M.P.	A44	5,987,563		Itoh et al.	11/16/1999
	A45	5,986,933		Takeuchi et al.	11/16/1999
	A46	5,966,727		Nishino et al.	10/12/1999
	A47	5,959,926		Jones et al.	09/28/1999
	A48	5,956,473		Ma et al.	09/21/1999
	A49	5,953,737		Estakhri et al.	09/14/1999
	A50	5,937,425		Ban	08/10/1999
	A51	5,936,971		Haran et al.	08/10/1999
	A52	5,933,846		Endo	08/03/1999
	A53	5,933,368		Ma et al.	08/03/1999
	A54	5,930,815		Estakhri et al.	07/27/1999
	A55	5,928,370		Asnaashan	07/27/1999
	A56	5,920,884		Jennings, III et al.	07/06/1999
	A57	5,909,586		Anderson	06/01/1999
	A58	5,907,856		Estakhri et al.	05/25/1999
	A59	5,901,086		Wang et al.	05/04/1999
	A60	5,890,192		Lee et al.	03/30/1999
	A61	5,862,099		Gannage et al.	01/19/1999
	A62	5,860,124		Matthews et al.	01/12/1999
	A63	5,860,083		Sukeawa	01/12/1999
	A64	5,847,552		Brown	12/08/1998
	A65	5,845,313		Estakhri et al.	12/01/1998
	A66	5,835,935		Estakhri et al.	11/10/1998
	A67	5,831,929		Manning	11/03/1998
	A68	5,822,781		Wells et al.	10/13/1998
	A69	5,822,252		Lee et al.	10/13/1998
	A70	5,822,245		Gupta et al.	01/13/1998
	A71	5,818,781		Estakhri et al.	10/06/1998
	A72	5,809,560		Schneider	09/15/1998
	A73	5,809,558		Matthews et al.	09/15/1998
	A74	5,809,515		Kaki et al.	09/15/1998
	A75	5,802,551		Komatsu et al.	09/01/1998
	A76	5,799,188		Ban	08/25/1998
	A77	5,787,484		Norman	07/28/1998
	A78	5,787,445		Dabenko	07/28/1998
	A79	5,781,478		Takeuchi et al.	07/14/1998
	A80	5,773,901		Kanter	06/30/1998
	A81	5,768,195		Nakamura et al.	06/16/1998
	A82	5,768,190		Tanaka et al.	06/16/1998
	A83	5,761,117		Uchino et al.	06/02/1998
	A84	5,758,100		Odisho	05/26/1998
	A85	5,757,712		Nagel et al.	05/26/1998
	A86	5,754,567		Norman	05/19/1998
	A87	5,745,418		Ma et al.	04/28/1998
	A88	5,734,567		Griffiths et al.	03/31/1998
M.N.	A89	5,723,990		Roohparvar	03/03/1998

Substitute for form 1449A/PTO



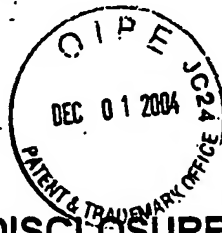
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Sheet	3	of	6	Attorney Docket Number	38979-80US
M-N	A90	5,648,929		Miyamoto	07/15/1997
	A91	5,611,067		Okamoto et al.	03/11/1997
	A92	5,603,001		Sukegawa et al.	02/11/1997
	A93	5,602,987		Haran et al.	02/11/1997
	A94	5,598,370		Niisima et al.	01/28/1997
	A95	5,592,415		Kato et al.	01/07/1997
	A96	5,581,723		Hasbun et al.	12/03/1996
	A97	5,579,502		Konishi et al.	11/26/1996
	A98	5,572,466		Sukegawa	11/05/1996
	A99	5,552,698		Tai et al.	09/03/1996
	A100	5,544,356		Robinson	08/06/1996
	A101	5,541,551		Brehner et al.	07/30/1996
	A102	5,530,938		Akasaka et al.	06/25/1996
	A103	5,530,828		Kaki et al.	06/25/1996
	A104	5,530,673		Tobita et al.	06/25/1996
	A105	5,524,230		Sakaue et al.	06/04/1996
	A106	5,523,980		Sakui et al.	06/04/1996
	A107	5,519,847		Fandrich et al.	05/21/1996
	A108	5,515,333		Fujita et al.	05/07/1996
	A109	5,513,138		Manabe et al.	04/30/1996
	A110	5,490,117		Oda et al.	02/06/1996
	A111	5,479,638		Assar et al.	12/26/1995
	A112	5,473,765		Gibbons et al.	12/05/1995
	A113	5,465,338		Clay	11/07/1995
	A114	5,465,235		Miyamoto	11/07/1995
	A115	5,431,330		Wieres	07/11/1995
	A116	5,430,682		Ishikawa et al.	07/04/1995
	A117	5,422,856		Sasaki et al.	06/06/1995
	A118	5,418,752		Haran et al.	05/23/1995
	A119	5,406,527		Honma	04/11/1995
A120	5,404,485		Ban	04/04/1995	
A121	5,388,083		Assar et al.	02/07/1995	
A122	5,384,743		Rouy	01/24/1995	
A123	5,382,839		Shinohara	01/17/1995	
A124	5,381,539		Yanai et al.	01/10/1995	
A125	5,371,702		Nakai et al.	12/06/1994	
A126	5,365,127		Manley	11/15/1994	
A126B	5,359,569		Fujita et al.	10/25/1994	
A127	5,341,341		Fukazo	08/23/1994	
A128	5,341,339		Wells	08/23/1994	
A129	5,341,330		Wells et al.	08/23/1994	
M-N	A130	5,329,491		Brown et al.	07/12/1994



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	4	of	6	Application Number	10/054,451
				Filing Date	01/18/2002
				First Named Inventor	Petro Estakhri
				Group Art Unit	2188
				Examiner Name	Namazi, Mehdi
				Attorney Docket Number	38979-80US
M.N.	A131	5,315,558		Hag	05/24/1994
	A132	5,305,278		Inoue	04/19/1994
	A133	5,305,276		Uenoyama	04/19/1994
	A134	5,303,198		Adachi et al.	04/12/1994
	A135	5,267,218		Elbert	11/30/1993
	A136	5,253,351		Yamamoto et al.	10/12/1993
	A137	5,227,714		Lou	07/13/1993
	A138	5,220,518		Haq	06/15/1993
	A139	5,218,695		Noveck et al.	06/08/1993
	A140	5,093,785		Iijima	03/03/1992
	A140A	4,970,727		Miyawaki et al.	11/13/1990
	A140B	4,970,642		Yamamura	11/13/1990
	A141	4,943,745		Watanabe et al.	07/24/1990
	A142	4,843,224		Ohta et al.	06/27/1989
	A143	4,829,169		Watanabe	05/09/1989
	A144	4,787,543		Watanabe	01/10/1989
	A145	4,788,665		Fukuda et al.	11/29/1988
	A146	4,780,855		Iida et al.	10/25/1988
	A147	4,609,833		Guterman	09/02/1988
	A148	4,532,580		Wallach et al.	07/30/1985
	A149	4,476,526		Dodd	10/09/1984
	A150	4,473,878		Zolnowsky et al.	09/25/1984
	A151	4,468,730		Dodd et al.	08/28/1984
	A152	4,414,627		Nakamura	11/08/1983
	A153	4,398,248		Hsia et al.	08/09/1983
	A154	4,309,627		Tabata	01/05/1982
	A155	4,130,900		Watanabe	12/19/1978
	A156	4,099,069		Cricchi et al.	07/04/1978
M.N.	A157	35,881 Re.		Barrett et al.	08/25/1998 (Reissued)

FOREIGN PATENT DOCUMENTS

Examiner Initiate*	Cite No. ¹	Foreign Patent Document ¹		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Count y Code ³	Number ⁴				
M.N.	B1		0 563 636	A1	Sun Microsystems, Inc.	07/19/1995	
	B2		0 619 541	A2	Hitachi, Ltd., Hitachi Keiyo Engineering Co., Ltd, Hitachi ULSI Engineering Corp.	10/12/1994	
	B3		0 617 363	A2	Sundisk Corporation	09/28/1994	
	B4		0 613 151	A2	Kabushiki Kaisha Toshiba	08/31/1994	
	B5		0 522 780	A2	International Business Machines Corporation	01/13/1993	
	B6		0 522 780	B1	International Business Machines Corporation	01/13/1993	
M.N.	B7		0 392 895	A2	Sundisk Corporation	10/17/1990	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number 10/054,451

Filing Date 01/18/2002

First Named Inventor Petro Estakhri

Group Art Unit 2188

Examiner Name Namazi, Mehdi

Attorney Docket Number 38979-80US

M.P.	B8	2 304 428		Mitsubishi Denki Kabushiki Kaisha	03/19/1997		
	B9	2 291 980		Memory Corporation	02/07/1996		
	B10	2 251 323		Intel Corporation	07/01/1992		
	B11	9-147581		Hitachi Co., Ltd., Hitachi VLSI Engineering Corp.	06/06/1997		
	B12	59-92483			05/28/1984		
	B13	8-69696		Toshiba Corp.	03/12/1996		
	B14	8-18018		Toshiba Corp.	01/19/1996		
	B15	7-93499		Hitachi Co., Ltd., Hitachi VLSI Engineering Corp., Hitachi Tobu Semiconductor Co., Ltd.	04/07/1995		
	B16	7-84871			03/31/1995		
	B17	7-334996			12/22/1995		
	B18	7-311708		Fuji Film Micro Device K.K., Fuji Photo Film Co., Ltd.	11/28/1995		
	B19	7-235193			09/05/1995		
	B20	7-141258			06/02/1995		
	B21	7-114499			05/02/1995		
	B22	6-4399			01/14/1994		
	B23	6-36578		Sony Kabushiki Kaisha	02/10/1994		
	B24	6-266596		Hitachi Ltd.	09/22/1994		
	B25	6-149395		NEC	05/27/1994		
	B26	6-132747		Fujitsu Ltd., Fujitsu VLSI Ltd.	05/13/1994		
	B27	6-131889		Toshiba Corporation	05/13/1994		
	B28	6-124231		Toshiba Corporation	05/06/1994		
	B29	6-124175		Sharp Corp.	05/06/1994		
	B30	5-282883		Toshiba Corp.	10/29/1993		
	B31	5-128877		Mitsubishi Electric Corp.	05/25/1993		
	B32	4-57295		NEC Corporation	02/25/1992		
	B33	4-278297		Toshiba Corp.	10/02/1992		
	B34	4-268284		Fuji Photo Film Co., Ltd	09/24/1992		
	B35	4-254994		Toshiba Corp.	09/10/1992		
	B36	RM-37697			02/21/1996		
	B37	3-228377		Toshiba Corp.	10/09/1981		
	B38	1-138694		Nippon Denki Kabushiki Kaisha	05/31/1989		
	B39	WO 94/20906		M-Systems Ltd.	09/15/1994		
	B40	SU 1686449	A2	N.G. Parkhomenko, S.B. Kozelkov, V.Yu Lozbenov and S.S. Karpenko	10/23/1991		
	B41	SU 1573458	A2	N.G. Parkhomenko, V. Yu. Lozbenov, V.G. Chernyaev and S.B. Kozelkov	06/23/1990		
	B42	SU 1541619	A1	K.G. Semenov, N.M. Sidorov, A.I. Zhdanov, G.V. Kukhar and V.I. Potapenko	02/07/1990		
	B43	SU 1515164	A1	I.V. Dementiev and A.S. Papkov	10/15/1989		
	B44	SU 1408439	A1	V.V. Merkul, I Yu. Manukin and M.N. Gurevich	07/07/1988		
M.N.	B45	SU 1388877	A1	N.G. Parkhomenko, V. Yu. Lozbenov and A.P. Kuprovskij	04/15/1988		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
M.N.	C1	MENDEL ROSENBLUM and JOHN K. OUSTERHOUT, The Design and Implementation of a Log-Structured File System, article, 1991, 15 pgs., Berkeley, USA	
	C2	BRIAN DIPERT and MARKUS LEVY, Designing with Flash Memory, book, April 1994, 445 pgs., Annabooks, San Diego, USA	

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(use as many sheets as necessary)

Sheet	6	of	6	Application Number	10/054,451
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				First Named Inventor	Petro Estakhri
				Group Art Unit	2188
				Examiner Name	Namazi, Mehdi
				Attorney Docket Number	38979-80US

C3	SCIENCE FORUM, INC., Flash Memory Symposium '85, symposium, 1985, 13 pgs.; Hongo, Bunkyo-ku, Tokyo
C4	ROSS S. FINLAYSON and DAVID R. CHERITON, An Extended File Service Exploiting Write-Once Storage, article, 1987, 10 pgs. ACM
C5	JASON GAIT, The Optical File Cabinet: A Random-Access File System for Write-Once Optical Disks, article, June 1988, 12 pgs., Beaverton, Oregon
C6	HENRY G. BAKER, Memory Management, book, 1995, 16 pgs., Springer-Verlag Berlin Heidelberg, Germany
C7	SAPE J. MULLENDER and ANDREW S. TANENBAUM, A Distributed File Service Based on Optimistic Concurrency Control, article, 1985, 12 pgs., ACM
C8	HIROSHI NAKAMURA, JUNICHI MIYAMOTO, KENICHI IMAMIYA and YOSHIHISA IWATA, A Novel Sense Amplifier for Flexible Voltage Operation NAND Flash Memories, symposium, 1995, VLSI Circuits Digest of Technical Papers, 2 pgs.
C9	HIROSHI NAKAMURA, JUNICHI MIYAMOTO, KENICHI IMAMIYA, YOSHIHISA IWATA, YOSHIHISA SUGIURA and HIDEKO OODAIRA, A Novel Sensing Scheme with On-Chip Page Copy for Flexible Voltage NAND Flash Memories, article, June 1996, 9 pgs., Vol. E78-C, No. 6
C10	TAKAOKI NOZAKI, TOSHIKI TANAKA, YOSHIRO KUIYA, EITA KINOSHITA, TATSUO TSUCHIYA and YUTAKA HAYASHI, A 1-Mb EEPROM with MONOS Memory Cell for Semiconductor Disk Application, article, 1991, 5 pgs., Journal Of Solid-State Circuits, Vol. 26, No. 4.
C11	KAI HWANG and FAYE A. BRIGGS, Computer Architecture and Parallel Processing, book, 1984, McGraw-Hill, Inc., 2 pgs., US
C12	WALTER LAHTI and DEAN MCCARRON, State of the Art: Magnetic VS. Optical Store Data in a Flash, article, 1980, 7 pgs., Vol. 15, No. 12, McGraw-Hill, Inc., US
C13	RON WILSON, INTEGRATED CIRCUITS; 1-Mbit flash memories seek their role in system design, article, March 1, 1989, 2 pgs., No. 6, Tutse, OK
C14	S. MEHROURA, J.H. YUAN, R.A. CEMEA, W.Y. CHIEN, D.C. GUTEMAN, G. SAMACHISA, R.D. NOMAN, M. MOFIDI, W. LEE, Y. FONG, A. MIHNEA, E. HANN, R.W. GREGOR, J.R. RADOSEVICH, K.R. STILES, R.A. KOHLER, C.W. LEUNG, and T.J. MULROONEY, Serial 8Mb F EEPROM for Solid State Disk Applications, symposium, 1992, 2 pgs., Mountain View, CA
C15	STEVEN H. LEIBSON, Nonvolatile, in-circuit-reprogrammable memories, article, January 3, 1991, 12 pgs., EDN, Circle No. 12
C16	WALTER LAHTI and DEAN MCCARRON, State of the Art: Magnetic VS. Optical Store Data in a Flash, article, 1980, 7 pgs., Vol. 15, No. 12, McGraw-Hill, Inc., US
C17	KAI HWANG and FAYE A. BRIGGS, Computer Architecture and Parallel Processing, book, 1984, McGraw-Hill, Inc., 2 pgs., US
C18	STEVEN H. LEIBSON, Nonvolatile, in-circuit-reprogrammable memories, article, January 3, 1991, 12 pgs., EDN, Circle No. 12
C19	RAMON CACERES, FRED DOUGLIS, KAI LI and BRIAN MARSH, Operating System Implications of Solid-State Mobile Computers, article, 7 pgs., October 1993, Workshop on Workstation Operating Systems
C20	MICHAEL WU and WILY ZWAENEPOEL, A Non-Volatile, Main Memory Storage System, 12 pgs., 1994, ACM, San Jose, CA USA
C21	DAVE BURSKEY, Innovative flash memories match DRAM densities: available with a choice of features, flash memories are finding homes in many systems (Includes related articles on the origins of flash, and on the differences between NAND and NOR flash memories), article, May 18, 1994, 9 pgs., Electronic Design, v. 42, n. 10, The Gate Group
C22	ANTHONY CATALDO, New flash enhancements up ante. (Intel's 28F400BV-120 and 28F004BV-120, Atmel's AT28BV010 and AT28BV020, and Samsung Semiconductor's KM29V32000 "flash" memory devices) (Product Announcement), article, March 13, 1995, 4 pgs., Electronic News, v. 41, n. 2056, The Gate Group
C23	SAM WEBER, "Flash" modules' portability, reusability, small size valued for a host of APPE-Consumer formats flocking to "flash", article, 7/22/96, 9 pgs., Electronic Engineering Times, n. 811, CMP Media
C24	TOSHIBA, MOS MEMORY (NON-VOLATILE), 1995, Data Book
C25	STAN BAKER, BUT INTEGRATION CALLS FOR HARDWARE, SOFTWARE CHANGES: Flash: designers face the dawn of a new memory age, article, 8/12/03, 5 pgs., Electronic Engineering Times, 1990, N. 619, 41, CMP Media
C26	TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE CMOS, (TC58N8512DC) 3/21/2001, 43 pgs., Data Book
C27	TOSHIBA CORPORATION, SMIL (Smartmedia Interface Library) Hardware Edition Version 1.00, July 1, 2000, 36 pgs., Data Book
C28	TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TC58512FT), 3/05/2001, 43 pgs., Data Book
C29	TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TC58DVM92A1FT00), 1/10/2003, 44 pgs., Data Book
C30	TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TC58DVG02A1FT00), 1/10/2003, 44 pgs., Data Book
C31	TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TH58100FT), 3/05/2001, 43 pgs., Data Book
C32	35NONVOLATILE MEMORY TECHNOLOGY REVIEW, A Time of Change, Proceedings 1993 Conference, June 22-24, 1993, Linthicum Heights, MD USA
C33	TOSHIBA CORPORATION, SMIL (Smartmedia Interface Library) Software Edition Version 1.00, July 1, 2000, 136 pgs., Data Book
C34	TOSHIBA, MOS MEMORY (NON-VOLATILE), 1996, 279 pgs., Data Book
C35	DAN AUCLAIR, Optimal Solid State Disk Architecture For Portable Computers, symposium, July 9, 1991, 7 pgs., SunDisk Corporation

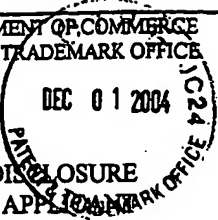
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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT 	APPLICANT Petro Estakhri	
	FILING DATE 01/18/2002	GROUP 2182

U. S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M-M	A1	4,210,959	07/01/1980	Wozniak	364	200	
	A2	4,355,376	10/19/1982	Gould	365	230	
	A3	4,405,952	09/20/1983	Slakmon	360	49	
	A4	4,450,559	05/22/1984	Bond et al.	371	10	
	A5	4,456,971	06/26/1984	Fukuda et al.	364	900	
	A6	4,498,146	02/05/1985	Martinez	364	900	
	A7	4,525,839	06/25/1985	Nozawa et al.	371	38	
	A8	4,616,311	10/07/1986	Sato	364	200	
	A9	4,654,847	03/31/1987	Dutton	371	10	
	A10	4,710,871	12/01/1987	Belknap et al.	364	200	
	A11	4,746,998	05/24/1988	Robinson et al.	360	72.1	
	A12	4,748,320	05/31/1988	Yorimoto et al.	235	492	
	A13	4,757,474	07/12/1988	Fukushi et al.	365	189	
	A14	4,774,700	09/27/1988	Satoh et al.	369	54	
	A15	4,800,520	01/24/1989	Iijima	364	900	
	A16	4,896,262	01/23/1990	Wayama et al.	364	200	
	A17	4,914,529	04/03/1990	Bonke	360	48	
	A18	4,920,518	04/24/1990	Nakamura et al.	365	228	
	A19	4,924,331	05/08/1990	Robinson et al.	360	72.1	
	A20	4,953,122	08/28/1990	Williams	364	900	
	A21	5,070,474	12/03/1991	Tuma et al.	395	500	
	A22	5,168,465	12/01/1992	Harari	257	320	
	A23	5,198,380	03/30/1993	Harari	437	43	
	A24	5,200,959	04/06/1993	Gross et al.	371	21.6	
	A25	5,226,168	07/06/1993	Kobayashi et al.	395	800	
	A26	5,268,318	12/07/1993	Harari	437	43	

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M.N.	A27	5,268,870	12/07/1993	Harari	365	218	
	A28	5,270,979	12/14/1993	Harari et al.	365	218	
	A29	5,293,560	03/08/1994	Harari	365	185	
	A30	5,297,148	03/22/1994	Harari et al.	371	10.2	
	A31	5,303,198	4/12/1994	Adachi et al.	365	218	
	A32	5,315,541	05/24/1994	Harari et al.	365	63	
	A33	5,337,275	08/09/1994	Garner	365	189.01	
	A34	5,341,330	08/23/1994	Wells et al.	365	185	
	A35	5,341,339	08/23/1994	Wells	365	218	
	A36	5,353,256	10/04/1994	Fandrich et al.	365	230.03	
	A37	5,357,475	10/18/1994	Hasbun et al.	365	218	
	A38	5,369,615	11/29/1994	Harari et al.	365	218	
	A39	5,388,083	02/07/1995	Assar et al.	365	218	
	A40	5,396,468	03/07/1995	Harari et al.	365	218	
	A41	5,418,752	05/23/1995	Harari et al.	365	218	
	A42	5,422,842	06/06/1995	Cernea et al.	365	185	
	A43	5,428,621	06/27/1995	Mehrotra et al.	371	21.4	
	A44	5,430,859	07/04/1995	Norman et al.	395	425	
	A45	5,434,825	07/18/1995	Harari	365	185	
	A46	5,438,573	08/01/1995	Mangan et al.	371	10.3	
	A47	5,471,478	11/28/1995	Mangan et al.	371	10.3	
	A48	5,479,638	12/26/1995	Assar et al.	395	430	
	A49	5,485,595	01/16/1996	Assar et al.	395	430	
	A50	5,495,442	02/27/1996	Cernea et al.	365	185.03	
	A51	5,504,760	04/02/1996	Harari et al.	371	40.1	
	A52	5,508,971	04/16/1996	Cernea et al.	365	185.23	
	A53	5,524,230	06/04/1996	Sakaue et al.	395	430	
M.N.	A54	5,532,962	07/02/1996	Auclair et al.	365	201	

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M.N.	A55	5,532,964	07/02/1996	Cernea et al.	365	189.09	
	A56	5,534,456	07/09/1996	Yuan et al.	437	43	
	A57	5,535,328	07/09/1996	Harari et al.	395	182.05	
	A58	5,544,118	08/06/1998	Harari	365	218	
	A59	5,544,356	08/06/1996	Robinson et al.	395	600	
	A60	5,554,553	09/10/1996	Harari	437	43	
	A61	5,563,825	10/08/1996	Cernea et al.	365	185.18	
	A62	5,566,314	10/15/1996	DeMarco et al.	395	430	
	A63	5,568,439	10/22/1996	Harari	365	218	
	A64	5,583,812	12/10/1996	Harari	365	185.33	
	A65	5,592,420	01/07/1997	Cernea et al.	365	185.18	
	A66	5,642,312	06/24/1997	Harari	365	185.33	
	A67	5,663,901	09/02/1997	Wallace et al.	365	52	
	A68	5,693,570	12/02/1997	Cernea et al.	437	205	
	A69	5,712,819	01/27/1998	Harari	365	185.29	
	A70	5,719,808	02/17/1998	Harari et al.	365	185.33	
M.N.	A71	5,778,418	07/07/1998	Auclair et al.	711	101	

FOREIGN PATENT DOCUMENTS

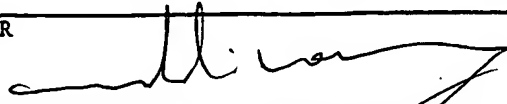
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M.N.	B1	4-332999 (A)	19.11.1992	JP	Masakazu Namekawa	G11 C	29/00	X	
	B2	58-215794 (A)	15.12.1983	JP	Noriyuki Tanaka	G11 C	17/00	X	
	B3	58-215795 (A)	15.12.1983	JP	Noriyuki Tanaka	G11 C	17/00	X	
	B4	59-45695 (A)	07.09.1982	JP	Yuuichi Furukawa	G11 C	17/00	X	
	B5	59-162695 (A)	13.09.1984	JP	Toshi Ninomiya (1)	G11 C	17/00	X	
M.N.	B6	60-212900	25.10.1985	JP	Tsuneaki Higashi	G11 C	29/00	X	

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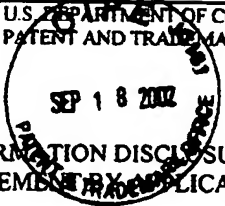
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M.P.	B7	61-96598 (A)	15.05.1986	JP	Yutaka Haniyu	G 11 C	17/00	X	
	B8	62-283496 (A)	09.12.1987	JP	Shinichi Nakada	G 11 C	17/00	X	
	B9	62-283497 (A)	09.12.1987	JP	Shinichi Nakada	G 11 C	17/00	X	
	B10	63-183700 (A)	29.07.1988	JP	Kazuo Ishikawa	G 11 C	17/00	X	
	B11	0 557 723	08.01.1987	AU	Kevin John Burke	G 11 C	5/00	X	
	B12	0 220 718 A2	06.05.1987	EP	Yorimoto et al.	G 06 F	15/40	X	
	B13	0 243 503 A1	04.11.1987	EP	Fukushima et al.	G 11 B	20/10	X	
	B14	0 424 191 A2	24.04.1991	EP	Stephen Gross	G 06 F	11/00	X	
	B15	0 489 204 A1	10.06.1992	EP	Kevin Lloyd-Jones	G 11 C	16/06	X	
	B16	0 522 780 A2	13.01.1993	EP	Sakaue et al.	G 06 F	3/06	X	
	B17	0 544 252 A2	02.06.1993	EP	Matsui et al.	G 11 C	16/06	X	
	B18	0 686 976 A2	13.12.1995	EP	Matsui et al.	G 11 C	16/06	X	
	B19	93 01908	27.08.1993	FR	Hiroyuki et al.	G 06 F	12/02	X	
M.P.	B20	84/00628	16.02.1984	WO	Maria Martinez	G 06 F	11/20, 13/00	X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

M.P.	C1	Book - <i>Computer Architecture and Parallel Processing</i> , Kai Hwang & Faye A. Briggs, McGraw-Hill Book Co., © 1984, Page 64.
	C2	Magazine - "State of the Art: Magnetic VS. Optical Store Data in a Flash", by Walter Lahti and Dean McCarron, Byte magazine dated 11/1/90, 311, Vol. 15, No. 12.
	C3	Magazine - Technology Updates, Integrated Circuits, "1-Mbit flash memories seek their role in system design", Ron Wilson, Senior Editor, Computer Design magazine 28 (1989) March 1, No.5, Tulsa OK, US, pages 30 and 32...
M.W.	C4	1992 Symposium of VLSI Circuits Digest of Technical Papers, "EEPROM for Solid State Disk Applications", S. Mehoura et al., SunDisk Corporation, Santa Clara, CA. R.W. Gregor et al., AT&T Bell Laboratories, Allentown, PA. Pages 24 and 25.

EXAMINER 	DATE CONSIDERED 12-20-04
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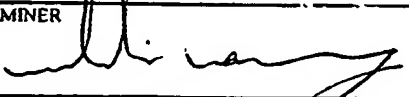
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	B9	62-283497 (A)	09.12.1987	JP	Shinichi Nakada	G 11 C	17/00	X	
	B10	63-183700 (A)	29.07.1988	JP	Kazuo Ishikawa	G 11 C	17/00	X	
	B11	0 557 723	08.01.1987	AU	Kevin John Burke	G 11 C	5/00	X	
	B12	0 220 718 A2	06.05.1987	EP	Yorimoto et al.	G 06 F	15/40	X	
	B13	0 243 503 A1	04.11.1987	EP	Fukushima et al.	G 11 B	20/10	X	
	B14	0 424 191 A2	24.04.1991	EP	Stephen Gross	G 06 F	11/00	X	
	B15	0 489 204 A1	10.06.1992	EP	Kevin Lloyd-Jones	G 11 C	16/06	X	
	B16	0 522 780 A2	13.01.1993	EP	Sakaue et al.	G 06 F	3/06	X	
	B17	0 544 252 A2	02.06.1993	EP	Matsui et al.	G 11 C	16/06	X	
	B18	0 686 976 A2	13.12.1995	EP	Matsui et al.	G 11 C	16/06	X	
	B19	93 01908	27.08.1993	FR	Hiroyuki et al.	G 06 F	12/02	X	
M.N.	B20	84/00628	16.02.1984	WO	Maria Martinez	G 06 F	11/20, 13/00	X	

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	C2	Magazine - "State of the Art: Magnetic VS. Optical Store Data in a Flash", by Walter Lahti and Dean McCarron, Byte magazine dated 11/1/90, 311, Vol. 15, No. 12.
	C3	Magazine - Technology Updates, Integrated Circuits, "1-Mbit flash memories seek their role in system design", Ron Wilson, Senior Editor, Computer Design magazine 28 (1989) March 1, No. 5, Tulsa OK, US, pages 30 and 32.
M.N.	C4	1992 Symposium of VLSI Circuits Digest of Technical Papers, "EEPROM for Solid State Disk Applications", S. Mehoura et al., SunDisk Corporation, Santa Clara, CA. R.W. Gregor et al., AT&T Bell Laboratories, Allentown, PA. Pages 24 and 25.

EXAMINER	DATE CONSIDERED
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	APPLICANT Petro Estakhri	
FILING DATE	GROUP	
01/18/2002	2182 2188	

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M.N.	A55	5,532,964	07/02/1996	Cernea et al.	365	189.09	
M.N.	A56	5,534,456	07/09/1996	Yuan et al.	437,38	432,63	
M.N.	A57	5,535,328	07/09/1996	Harari et al.	395,714	182.057	
M.N.	A58	5,544,118	08/06/1998	Harari	365	218	
M.N.	A59	5,544,356	08/06/1996	Robinson et al.	395,707	680,205	
M.N.	A60	5,554,553	09/10/1996	Harari	437,38	432,64	
M.N.	A61	5,563,825	10/08/1996	Cernea et al.	365	185.18	
M.N.	A62	5,566,314	10/15/1996	DeMarco et al.	395,70	430,103	
M.N.	A63	5,568,439	10/22/1996	Harari	365	218,85.09	
M.N.	A64	5,583,812	12/10/1996	Harari	365	185.33	
M.N.	A65	5,592,420	01/07/1997	Cernea et al.	365	185.18	
M.N.	A66	5,642,312	06/24/1997	Harari	365	185.33	
M.N.	A67	5,663,901	09/02/1997	Wallace et al.	365	52	
M.N.	A68	5,693,570	12/02/1997	Cernea et al.	437,38	285,107	
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M.N.	A70	5,719,808	02/17/1998	Harari et al.	365	185.33	
M.N.	A71	5,778,418	07/07/1998	Auclair et al.	711	101	

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	B3	58-215795 (A)	15.12.1983	JP	Noriyuki Tanaka	G11 C	17/00	X	
	B4	59-45695 (A)	07.09.1982	JP	Yuuichi Furukawa	G11 C	17/00	X	
	B5	59-162695 (A)	13.09.1984	JP	Toshi Ninomiya (I)	G11 C	17/00	X	
M.N.	B6	60-212900	25.10.1985	JP	Tsuneaki Higashi	G11 C	29/00	X	